Sebastian Brusca

List of Publications by Year
in descending order

59 papers	678 citations	623188 14 h-index	642321 23 g-index
60 all docs	60 docs citations	60 times ranked	656 citing authors

#	Article	IF	Citations
1	Design of a vertical-axis wind turbine: how the aspect ratio affects the turbine's performance. International Journal of Energy and Environmental Engineering, 2014, 5, 333-340.	1.3	137
2	Water Injection in IC - SI Engines to Control Detonation and to Reduce Pollutant Emissions. , 0, , .		33
3	CFD modeling of a ducted Savonius wind turbine for the evaluation of the blockage effects on rotor performance. Renewable Energy, 2019, 141, 28-39.	4.3	31
4	Designing sustainable bioenergy from residual biomass: Site allocation criteria and energy/exergy performance indicators. Applied Energy, 2020, 274, 115315.	5.1	30
5	Dynamic Performance Evaluation of Photovoltaic Power Plant by Stochastic Hybrid Fault Tree Automaton Model. Energies, 2018, 11, 306.	1.6	28
6	On the Possibility to Run an Internal Combustion Engine on Acetylene and Alcohol. Energy Procedia, 2014, 45, 889-898.	1.8	27
7	Internal combustion engine heat release calculation using single-zone and CFD 3D numerical models. International Journal of Energy and Environmental Engineering, 2018, 9, 215-226.	1.3	27
8	Theoretical and Experimental Study of Gaussian Plume Model in Small Scale System. Energy Procedia, 2016, 101, 58-65.	1.8	26
9	On the use of dynamic reliability for an accurate modelling of renewable power plants. Energy, 2018, 151, 605-621.	4.5	26
10	A new design methodology to predict wind farm energy production by means of a spiking neural network–based system. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2267.	1.2	25
11	PM10 Dispersion Modeling by Means of CFD 3D and Eulerian–Lagrangian Models: Analysis and Comparison with Experiments. Energy Procedia, 2016, 101, 329-336.	1.8	23
12	Energy Performance of CHP System Integrated with Citrus Peel Air-Steam Gasification: a Comparative Study. Energy Procedia, 2017, 126, 485-492.	1.8	21
13	Evaluation of the Effects of Water Injection in a Single Cylinder CFR Cetane Engine. , 0, , .		20
14	A novel hybrid model for the estimation of energy conversion in a wind farm combining wake effects and stochastic dependability. Applied Energy, 2020, 280, 115967.	5.1	19
15	Analysis of Reforming Gas Combustion in Internal Combustion Engine. Energy Procedia, 2014, 45, 899-908.	1.8	17
16	Experimental Analysis of a Plume Dispersion Around Obstacles. Energy Procedia, 2015, 82, 695-701.	1.8	14
17	Fuels with low octane number: water injection as knock control method. Heliyon, 2019, 5, e01259.	1.4	14
18	Wind Turbine Placement Optimization by means of the Monte Carlo Simulation Method. Modelling and Simulation in Engineering, 2014, 2014, 1-8.	0.4	13

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19	On the Wind Turbine Wake Mathematical Modelling. Energy Procedia, 2018, 148, 202-209.	1.8	13
20	Unsteady computational fluid dynamics analysis of the hydrodynamic instabilities in a reversible Francis turbine used in a storage plant. Heliyon, 2019, 5, e02441.	1.4	10
21	Effects of Pressure, Temperature and Dilution on Fuels/Air Mixture Laminar Flame Burning Velocity. Energy Procedia, 2015, 82, 125-132.	1.8	9
22	Oscillating Water Column Wave Energy Converter by Means of Straight-bladed Darrieus Turbine. Energy Procedia, 2015, 82, 766-773.	1.8	9
23	Heat Exchange Numerical Modeling of a Submarine Pipeline for Crude Oil Transport. Energy Procedia, 2017, 126, 18-25.	1.8	9
24	Placement optimization of biodiesel production plant by means of centroid mathematical method. Energy Procedia, 2017, 126, 353-360.	1.8	9
25	Second generation bioethanol production from Arundo donax biomass: an optimization method. Energy Procedia, 2018, 148, 728-735.	1.8	9
26	Neural Network Application to Evaluate Thermodynamic Properties of ICE's Combustion Gases. , 0, , .		8
27	A Combustion Model for ICE by Means of Neural Network. , 0, , .		7
28	Flow similitude laws applied to wind turbines through blade element momentum theory numerical codes. International Journal of Energy and Environmental Engineering, 2014, 5, 313-322.	1.3	7
29	On the turbine-induced damping in Oscillating Water Column wave energy converter. Energy Procedia, 2017, 126, 581-588.	1.8	7
30	Performance Analysis of Biofuel Fed Gas Turbine. Energy Procedia, 2015, 81, 493-504.	1.8	6
31	Development and Validation of CFD 2D Models for the Simulation of Micro H-Darrieus Turbines Subjected to High Boundary Layer Instabilities. Energies, 2020, 13, 5564.	1.6	5
32	Theoretical and Experimental Analysis of Diesel Sprays behavior from Multiple Injections Common Rail System. , 0, , .		4
33	A Detailed Analysis of the Centrifugal Pumping Phenomenon in HAWTs Through the Use of CFD Models. Research Topics in Wind Energy, 2019, , 129-149.	0.2	4
34	Biomass blend effect on energy production in a co-gasification-CHP system. AIP Conference Proceedings, 2019, , .	0.3	4
35	An Innovative Methodology to Take into Account Traffic Information on WLTP Cycle for Hybrid Vehicles. Energies, 2021, 14, 1548.	1.6	4
36	Theoretical and Experimental Analysis of Heavy Duty Gas Turbine Performance Depending on Ambient Conditions. , 2003, , 405.		3

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37	A New Statistical based Energetic-economic Methodology for Wind Turbine Systems Evaluation. Energy Procedia, 2014, 45, 180-187.	1.8	3
38	Wind farm power forecasting: New algorithms with simplified mathematical structure. AIP Conference Proceedings, 2019, , .	0.3	3
39	A Feasibility Analysis of an Electric KERS for Internal Combustion Engine Vehicles. , 0, , .		3
40	The Evaluation of Gross Heat Release in Internal Combustion Engines by Means of Genetic Algorithms. , 0, , .		2
41	Passenger Car Energy Demand Assessment: a New Approach Based on Road Traffic Data. E3S Web of Conferences, 2020, 197, 05006.	0.2	2
42	Equilibrium Thermodynamics of Combustion by Means of Genetic Algorithms. , 2005, , .		2
43	Syngas Fed Gas Turbine Performance Increase by Means of Evaporative Cooling. , 2004, , 1.		1
44	The Effects of Thermochemical Dissociation in Ice Heat Release Evaluation. , 2005, , 117.		1
45	On Gas Turbine Performance With Pulse Jet for Air Filters Cleaning. , 2010, , .		1
46	Micro H-Darrieus wind turbines: CFD modeling and experimental validation. AIP Conference Proceedings, 2019, , .	0.3	1
47	On the wake effect in wind farm power forecasting: a new data-driven approach. E3S Web of Conferences, 2020, 197, 08016.	0.2	1
48	On the Combustion Turbine Modeling: A Dynamic Approach. , 2007, , 665.		0
49	Gas Turbine Power Boosting: Evaporative Cooling. , 2010, , .		0
50	Hybrid Vehicles Performances Analysis: Feed-Forward Dynamic Approach. , 0, , .		0
51	A New Tool to Optimize ICE Performance and Emissions Via 1D Code Coupled with GAs. Energy Procedia, 2015, 82, 111-118.	1.8	0
52	Vertical axis air turbine in oscillating water column systems. AIP Conference Proceedings, 2019, , .	0.3	0
53	Analysis of citrus peels-based polygeneration plant for hydrogen, heat, power and DME production: energy and exergy analysis. E3S Web of Conferences, 2020, 197, 09001.	0.2	0
54	Ducted Savonius Turbine Performance: A Multi-Application Approach. E3S Web of Conferences, 2020, 197, 08007.	0.2	0

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55	Analysis of Singas FED Gas Turbine Performance Depending on Ambient Conditions. , 2003, , .		0
56	Theoretical and Experimental Analysis of Carbon Coke Fed Steam Power Plant Performance. , 2003, , .		0
57	Heat Recovery Steam Generator Optimization Using Analysis of Variance. , 2005, , .		0
58	The Influence of Specific Heats Variability on Heat Release Analysis Using Two-Zone Models. , 2006, , .		0
59	Hydrogen production from residual biomass via air-steam gasification for a bioenergy-based economy in Sicily. Annales De Chimie: Science Des Materiaux, 2018, 42, 441-452.	0.2	0